

Seawind



INSTRUCTION MANUAL

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit horizonhobby.com or towerhobbies.com and click on the support or resources tab for this product.

MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:
WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.

 **WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury. This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

AGE RECOMMENDATION: Not for children under 14 years. This is not a toy.

Safety Precautions and Warnings

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.
- Always keep aircraft in sight and under control.
- Always use fully charged batteries.
- Always keep transmitter powered on while aircraft is powered.
- Always remove batteries before disassembly.
- Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- Always remove batteries after use.
- Always ensure failsafe is properly set before flying.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.

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Specifications

- Wingspan: 56.61" (1438mm)
- Length: 44.29" (1125mm)
- Flying Weight: 61oz. (1729g)

Components

- Motor: 4011-900Kv Motor (TOWA157525)
- ESC: 40A ESC; EC3 (TOWA157519)
- Servos: 9g Sub-Micro Servo (TOWA137519)
17g Nose Gear Servo (TOWA157523)
36g Main Gear Servo (TOWA157524)
- Propeller: 11.5 x 6 (TOWA157517)
- Transmitter: 6+ Channel (not included)
- Receiver: Spektrum™ AR637T (SPMAR637T) recommended (not included)
- Battery: 2200mAh 3S 11.1V Smart 30C (SPMX22003S30, not included)

Images within the manual

The trim scheme and colors shown in this manual have been updated. Refer to the website product pages for the most up-to-date information.

Box Contents

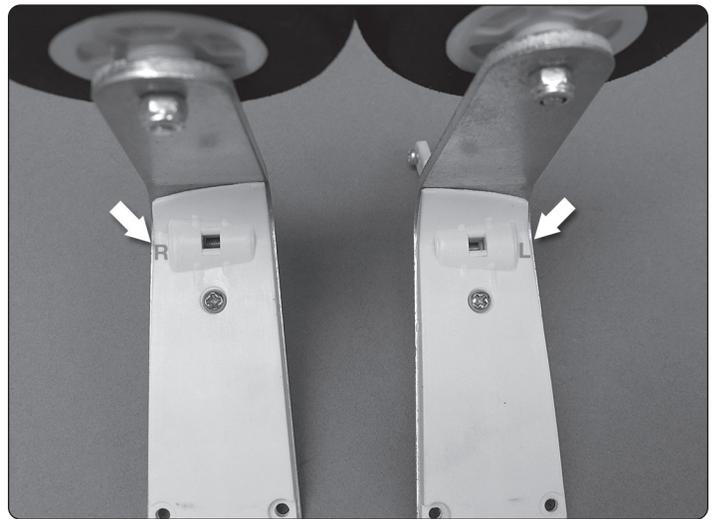
Before assembly, take an inventory of this kit to make sure it is complete, and inspect the parts to make sure they are of acceptable quality. If any parts are missing or are not of acceptable quality, or if you need assistance with assembly, contact Horizon Hobby product support.

- | | | |
|---------------------|---------------------------|-------------------------|
| 1. Fuselage | 9. Retract Speed Reducer | 17. Propeller; 11.5 x 6 |
| 2. Wing Set | 10. Main Gear Retract Set | 18. Propeller Adapter |
| 3. Stabilizer | 11. Nose Gear Retract | 19. 40A ESC; EC3 |
| 4. Fin Tip | 12. Wheel Set: | 20. Motor Mount |
| 5. Seats | 13. Cowling | 21. Decal Set |
| 6. Canopy Frame | 14. Spinner | 22. 17g Nose Gear Servo |
| 7. Canopy | 15. Water Rudder | 23. 36g Main Gear Servo |
| 8. Light Controller | 16. Wing Joiner | 24. 4011-900Kv Motor |

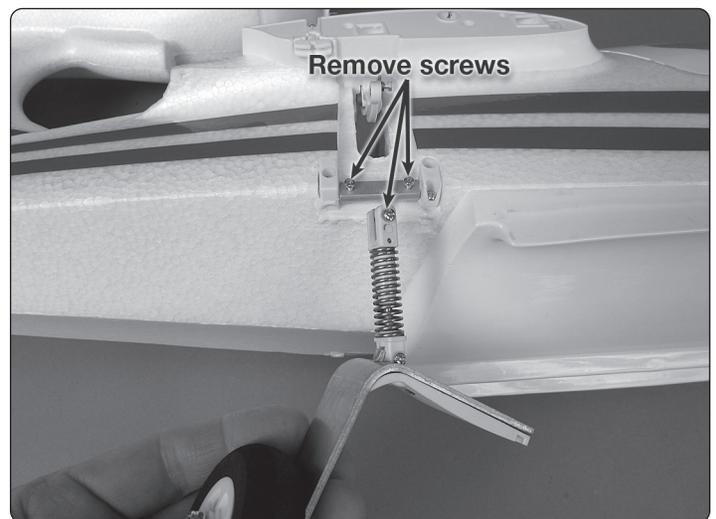
Assembly

Install the Main Landing Gear

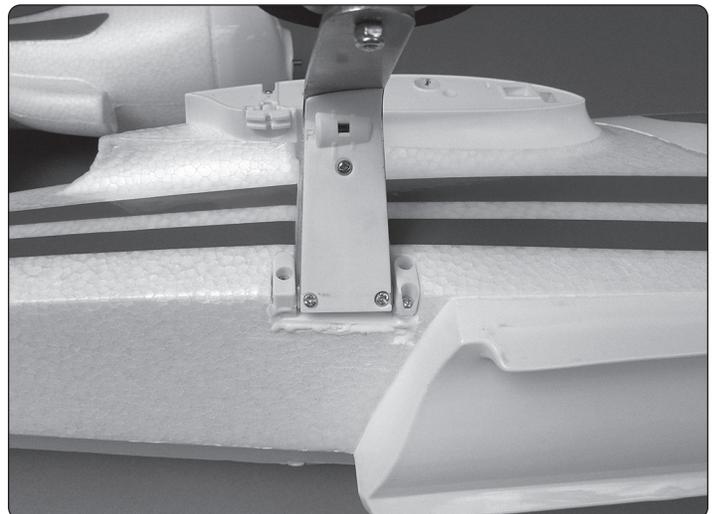
1. Note that the main landing gear has an 'L' and an 'R' on the left and right gear.



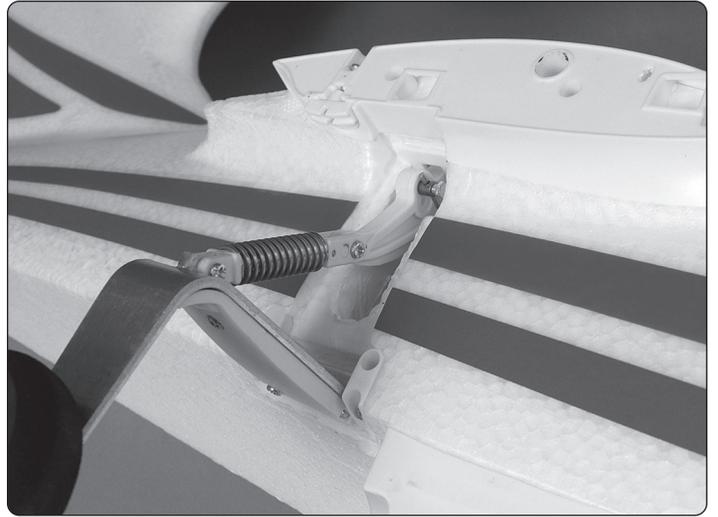
2. Remove the M2.5 x 10mm machine screws.



3. Attach the main landing gear to the aluminum pivot.

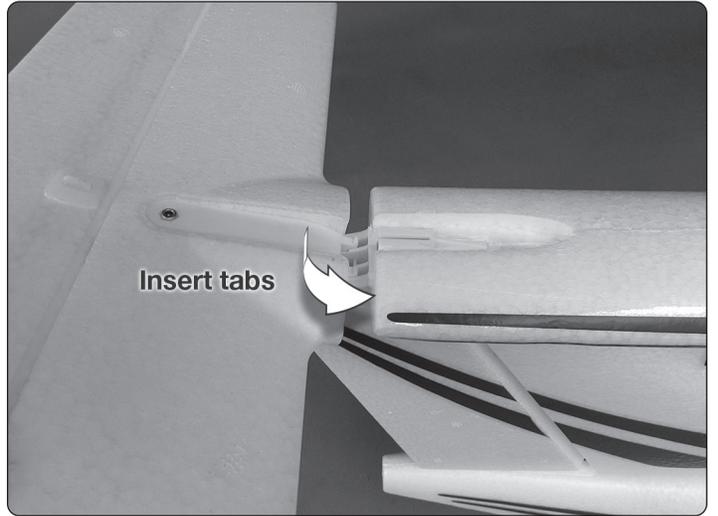


4. Connect the arms.
5. Install the main landing gear on the other side.



Install the Horizontal Stabilizer

1. Insert the tabs into the fin.



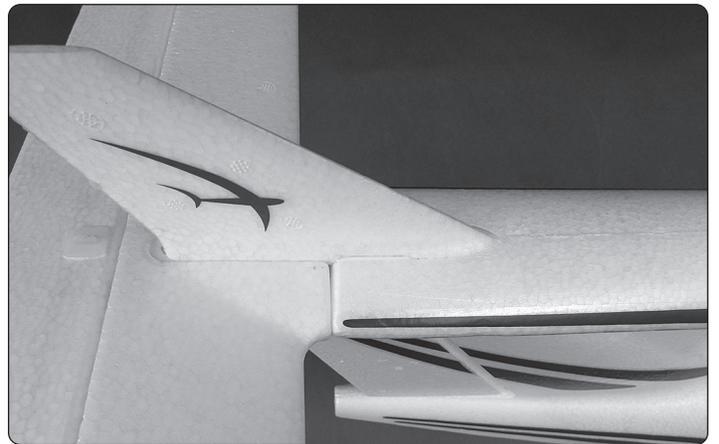
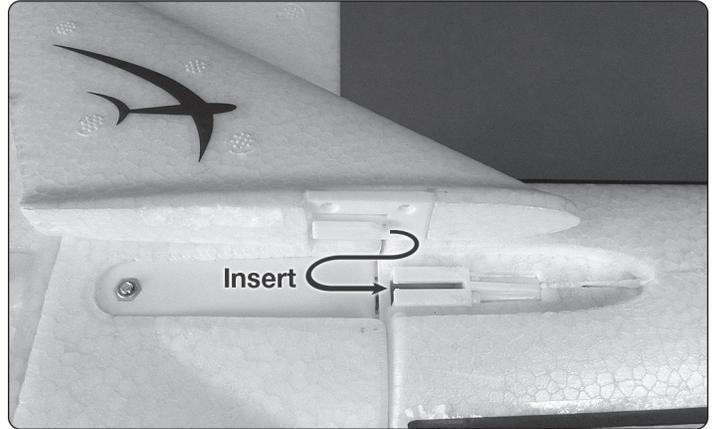
2. Install the M3 x 16mm machine screw.



3. Insert the elevator pushrod but do not tighten at this time.

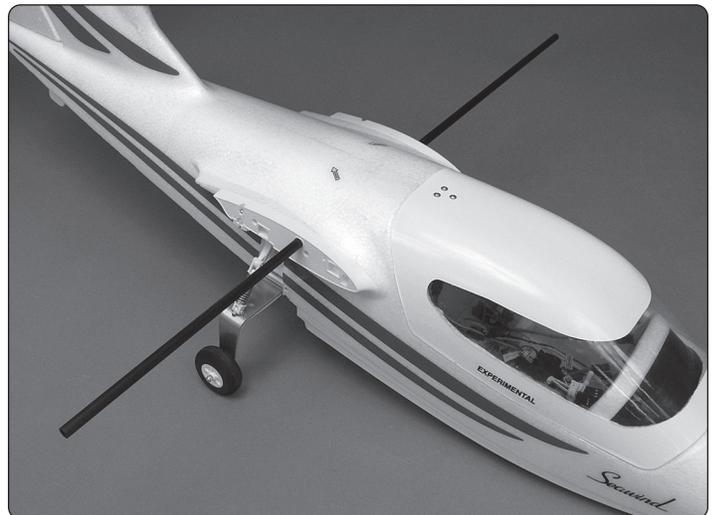


4. Slide the fin tip in completely.

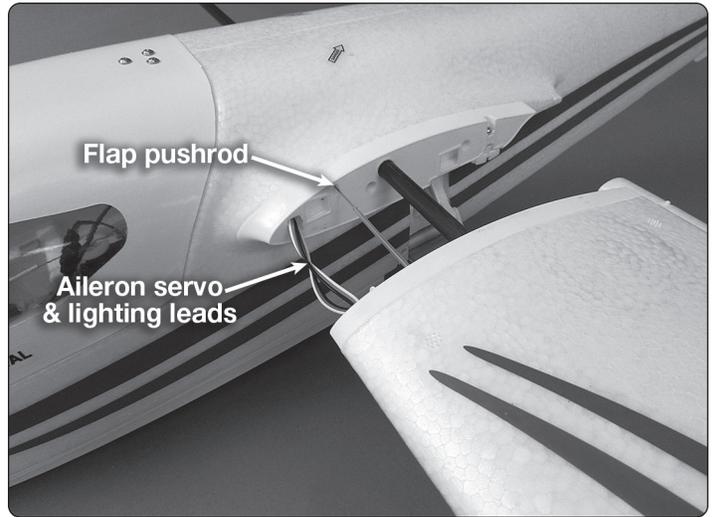


Install the Wing Halves

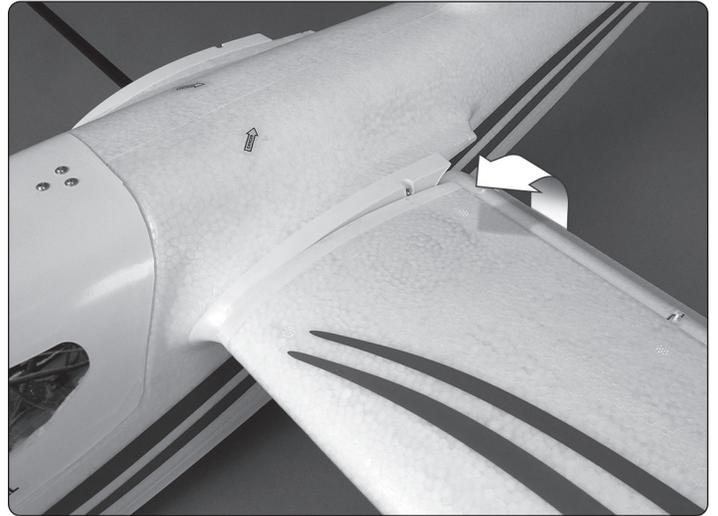
1. Insert the carbon fiber wing tube.



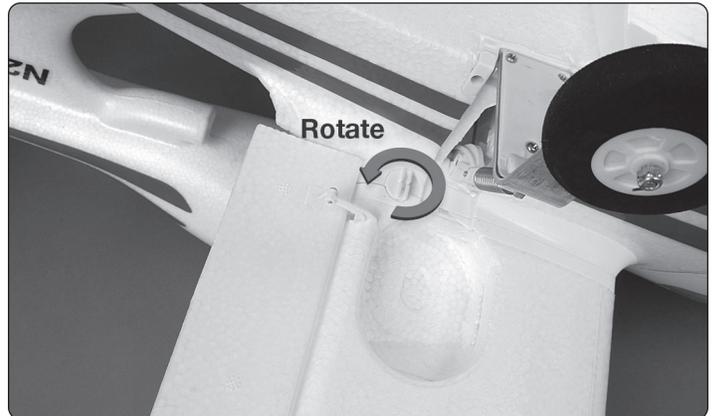
- Slide one wing panel onto the wing tube. Route the flap pushrod and aileron servo and lighting leads through the appropriate holes.



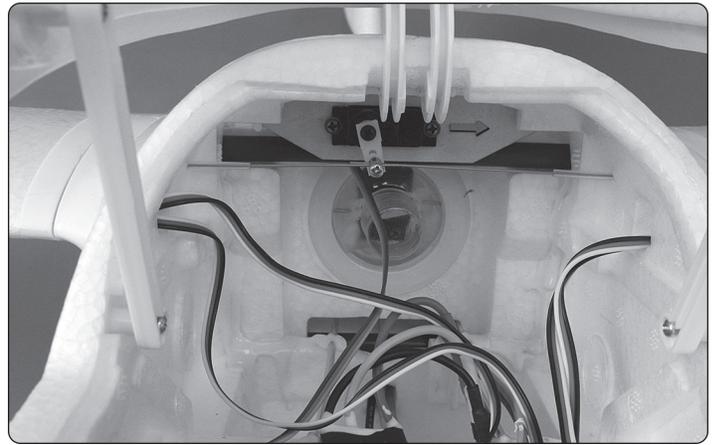
- Rotate the trailing edge of the wing up.



- Rotate the retainer to lock the wing.



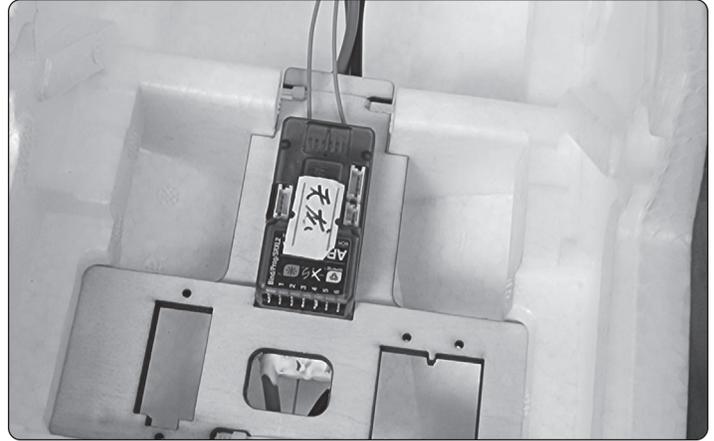
5. Guide the flap pushrod through the screw-lock connector.
6. Install the other wing panel following the same procedure.



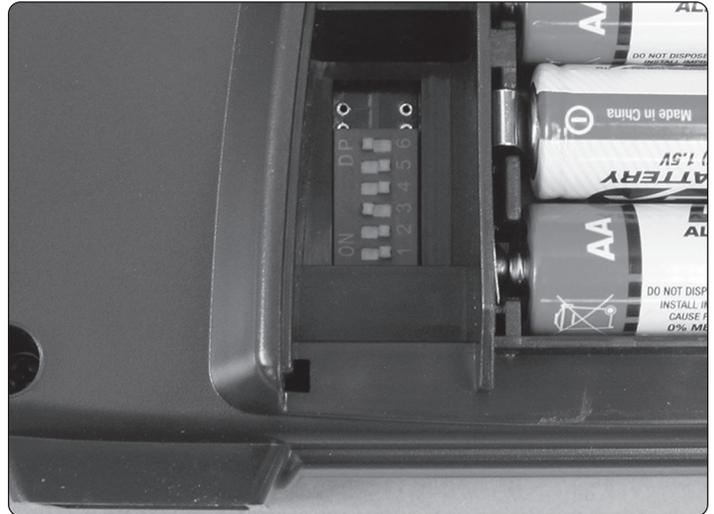
Install the Receiver

1. Plug the included Y-harnesses into the aileron and flap ports on the receiver.
2. Connect the aileron servo leads to the Y-harness on channel 1. Plug the rest of the servos into the appropriate channels for the transmitter.

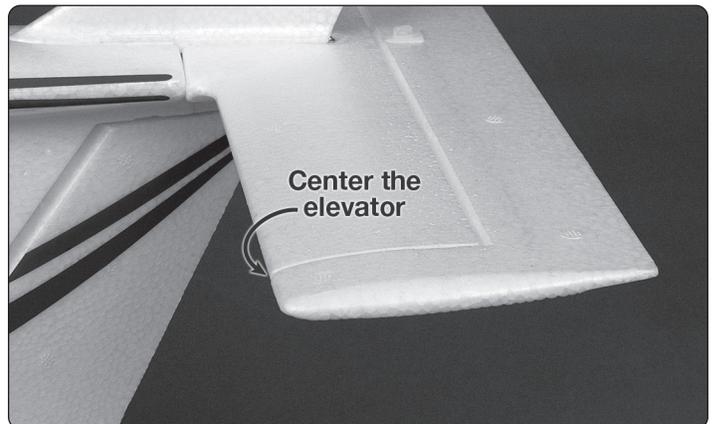
Elevator: CH2	Rudder: CH4	Flaps and Lights: CH6
Throttle: CH3	Retracts: CH5	



3. Set the servo reversing switches on the as shown. All the switches are to the right except channels 3 and 6 which are to the left.
4. With the propeller removed, switch on the transmitter and connect the motor battery to the ESC. Follow the instructions included with your radio system to bind the transmitter and receiver.
5. Center the elevator trim on the transmitter.



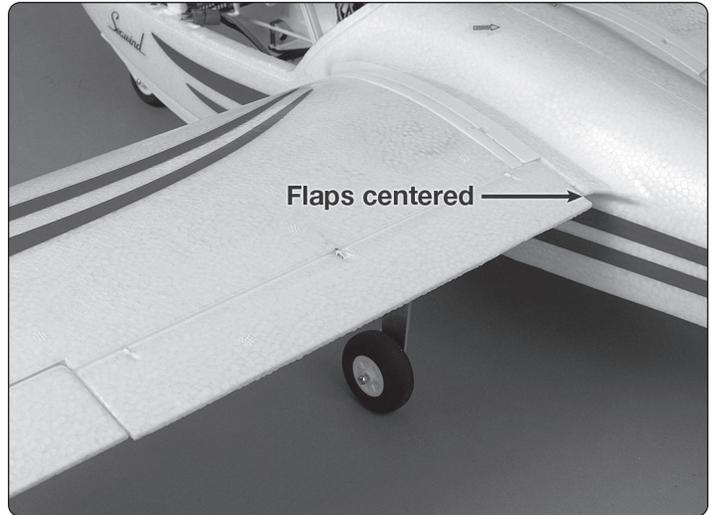
6. Center the elevator.



7. Tighten the screw-lock connector on the elevator pushrod.

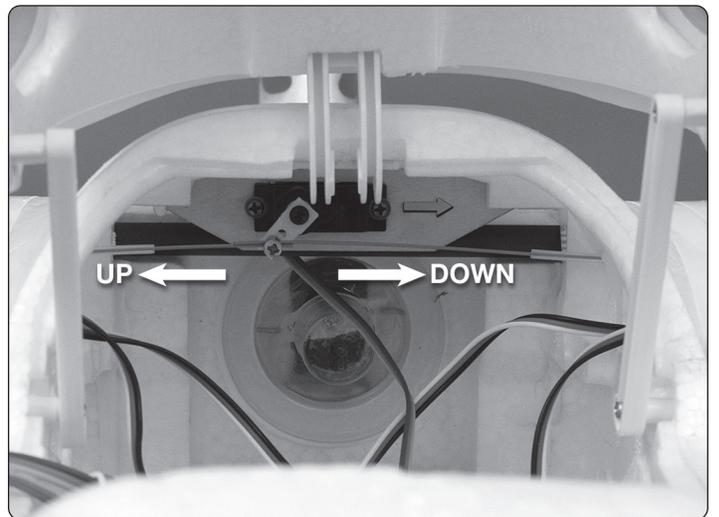


8. Move the flap switch on the transmitter to the "0" position.



9. Position both flaps so that they are in the up position, then tighten the screw-lock connector on the flap pushrods.

10. Check the flap throws to make sure there is no binding.



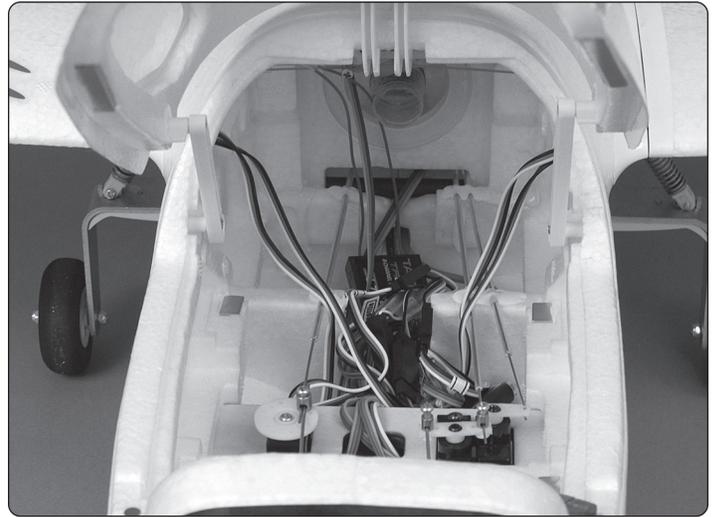
Calibrate the Electronic Speed Control

To set the throttle range

1. Move the throttle stick to the highest position.
2. Connect battery to the ESC. The motor will emit one low, long tone to indicate startup, then the respective number of medium-length mid-tones to indicate the battery cell count. The motor sounds 2 long tones (B—B—), which means the highest position of the throttle range is recognized by the ESC.
3. Move the throttle stick to the lowest position within 2 seconds of the tones. The ESC recognizes the low throttle position and exits the throttle range calibrating process.

Finish the Assembly

1. Separate the four servo wires coming from the wing and tape together the remaining wires.
2. Place the receiver at the back of the radio compartment. Position the receiver antennas and tape into place following the radio manufacturer's recommendations.

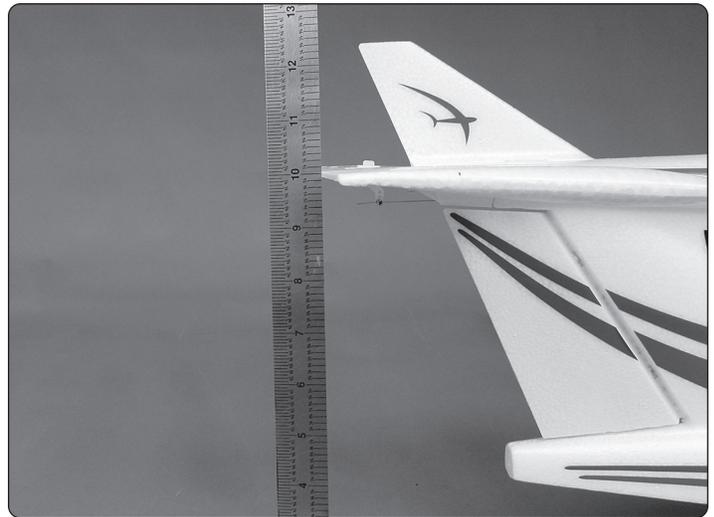


Control Throws

1. Confirm the controls respond in the correct direction according to control inputs from the transmitter. If necessary, use the servo reversing program in your transmitter to change the servo direction of any controls that are moving the wrong way.
2. If the aircraft is configured with the conventional landing gear, prop up the back of the fuselage so the wings and stab are level.
3. Measure and set the control throws according to the measurements below. Measure the throws at the widest part (front-to-back) of each surface.

Recommended Control Throws				
	High Rate		Low Rate	
	Up	Down	Up	Down
Elevator	13mm	13mm	10mm	10mm
Ailerons	24mm	24mm	16mm	16mm
Rudder	38mm	38mm	22mm	22mm
Flap		17mm		10mm

If any of the control throws require adjustment use the programming in your transmitter to increase or decrease the throws accordingly. If the programming isn't enough or if your radio doesn't have adjustable throws, the pushrod connectors on the servo arms can be relocated in different holes inward or outward to increase or decrease the throw—moving the pushrods inward on the servo arms decreases the throw and moving the pushrods outward on the servo arms increases the throw.



Propeller and Spinner Installation

Failure to follow these safety precautions may result in severe injury to yourself and others.

- Wear safety glasses whenever in the proximity of a spinning propeller.
 - Do not operate the motor in an area of loose gravel or sand; the propeller may throw such material in your face or eyes.
 - Keep spectators as well as your own face and body out of the plane of rotation of the propeller.
 - Never connect the battery to the ESC while indoors with the propeller installed.
 - Always remove the propeller when testing or making repairs to the model.
 - Always stay behind the arc of the propeller when handling the model.
 - Always assume the motor may start unexpectedly when the flight battery is connected.
 - Always remain outside the arc of the propeller when installing and/or removing the flight battery.
 - Keep all loose clothing, long hair or any other loose objects such as pencils or screwdrivers that may fall out pockets away from the propeller.
-

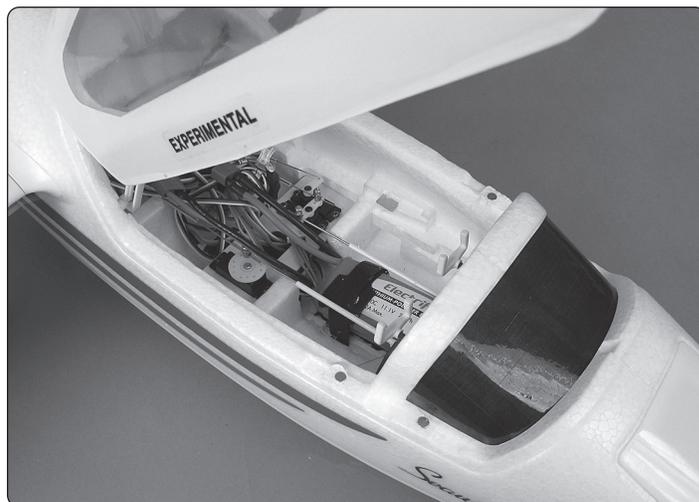
1. Install the prop/collet adapter onto the motor shaft. Then, tighten the nut with a 10mm wrench (not included).



2. Install the foam spinner and secure it with a 2.5 x 14mm machine screw.



3. Install the motor battery on the battery tray and secure it with the battery strap.



4. Install the two sets of seats. They are held in place with magnets.



Center Of Gravity (CG)

- If the model is tail heavy it may be unstable and respond too quickly to the controls.
- If the model is nose heavy it may be too stable and not respond fast enough.

Either case may possibly cause a crash.

IMPORTANT: Do not overlook this important procedure.

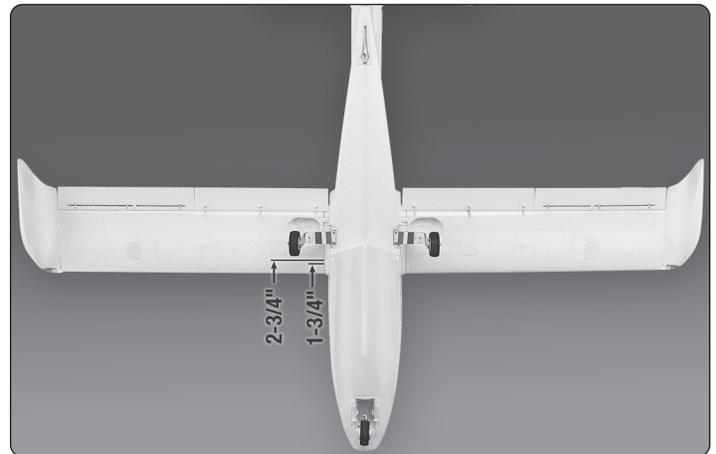
1. Mark the forward and aft C.G. limits on both sides of the bottom of the wing 2 and 2½in (51mm and 64mm) back from the leading edge where shown—using narrow strips of tape will allow you to feel the marks when lifting the model with your fingertips to balance.

2. Install the battery, battery hatch and cabin hatch. At this point your model must be in ready-to-fly condition with everything attached and installed including the floats or wheels and battery and propeller.
3. Lift the model by your fingers between the lines indicating the balance range. As long as your model sits level with your fingers on the forward or aft lines or anywhere between the lines it is properly balanced and ready to fly. If you have to move your fingertips outside the lines the Seawind is out of balance and should not be flown. If necessary, add squares of stick-on lead to the nose or tail to get your model to balance within the specified range.

DO NOT OVERLOOK THIS IMPORTANT PROCEDURE. A model that is not properly balanced will be unstable and possibly unflyable.

1. Mark the C.G. range on the bottom of the wing. The plane should balance between 1¾" – 2¾" [44mm-70mm] back from the leading edge. We recommend starting at 2" [51mm].

2. With the plane ready to fly, motor battery and seats installed, use a Great Planes C.G. Machine or apply narrow (1/16" [2mm]) strips of tape at the front and rear C.G. locations so you will be able to feel them when lifting the model with your fingers to check the C.G. location. Do not at any time balance the model outside this C.G. range.
3. If the Seawind does not balance within the recommended range, reposition the battery to get the model to balance. Once the correct battery location has been determined, mark the location on the inside of the fuselage so that the battery can be installed in the same location every time.



Before Every Flight

To help avoid flight accidents, ground inspections should be performed prior to every flight.

- Ensure all screws are secure, the servo arms and horns are properly connected and the wing is properly secured.
- Install the recommended battery (not included), adjusting the placement to ensure the center of gravity is correct, as recommended in the manual.
- Ensure both the flight battery and the transmitter battery are undamaged and fully charged.
- Ensure the transmitter throttle stick is at the lowest position prior to powering on the aircraft.
- After the aircraft is powered on, perform a control surface check to ensure both proper travel and the surfaces return to neutral when the transmitter sticks are returned to neutral.
- With all body parts and loose items away from the propeller and the aircraft securely held, gently push the throttle up to check for correct rotation of the propeller.
- For inexperienced pilots, always seek assistance from an experienced pilot.

Flying Tips

Takeoff

Before taking off from a runway, do a few practice runs at low speed to see how the plane handles. Once you have made a few practice runs, point the plane directly into the wind and slowly advance the throttle. Use the rudder control to keep the plane straight. Once the plane has gained enough speed gently apply some up elevator. As the plane lifts off be ready to add some right rudder to counteract the motor torque.

When taking off from the water, again make a few practice runs to see how the plane reacts to the water rudder. Advance the throttle slowly for takeoff. We recommend taking off with the rudder on low rates to avoid over control and causing one of the wing tips from catching the water and causing the plane to hook around. If your transmitter has Expo, it is recommended to use Expo on the rudder.

Flight

It is a good idea to have a timer set on your transmitter, wrist watch or cell phone. We found that the plane, if flown with throttle management, can fly for 6 minutes or more. Set the timer for 5 minutes. When recharging the battery note how much capacity was put back into the battery. To maintain the performance of LiPo batteries no more than 80% of the capacity should be drained from the battery on a flight. Adjust the timer as needed.

While flying at a safe altitude, lower the throttle to see how the plane handles at slow speed. Also, at the slower speeds, lower the flaps to see how the plane slows down and at what throttle settings will be needed to land. Normally with flaps a few more clicks of throttle are needed to prevent the plane from slowing down too much.

Landing

The plane lands like most trike gear planes. The main wheels should touch down first. Then, the nose of the plane is lowered until the nose gear touches. On water make sure to keep the wings level. If a wing tip catches it may cause the plane to hook. A small suction bottle is included with the Seawind to remove any water that may get into the fuselage. If water does get in, remove as much water as possible with the bottle and then use a paper towel to remove the rest. Leave the canopy open and allow the insides to dry before putting the plane away.

Note: If for some reason the motor stops (didn't set a timer and flew too long) do not extend the flaps until certain the Seawind will make it back to the runway or pond. With a dead stick it is common to not land with flaps at all. Without power the flaps can greatly reduce the range, causing the plane to come up short of the landing area.

Repairs

Parts damaged beyond repair can be purchased separately. Often parts can be repaired and you can get your Seawind back into the air with a little glue and ingenuity.

The Seawind is made from injection-molded EPO (expanded polyolefin) foam which can be glued with just about anything. Most people use regular CA. With CA no clamping is required, but some prefer softer, more flexible adhesives such as white glue or canopy glue. These will require clamps or tape to hold the parts together while the glue dries.

Troubleshooting

Problem	Possible Cause	Solution
Aircraft will not respond to the throttle but responds to other controls	ESC is not armed	Lower throttle stick and throttle trim to lowest settings
	Throttle channel is reversed	Reverse throttle channel on the transmitter
Extra propeller noise or vibration	Damaged spinner, propeller, motor or mount	Replace damaged parts
	Loose propeller and spinner parts	Tighten parts for propeller adapter, propeller and spinner
	Propellor installed backwards	Remove and install the propeller correctly
Reduced flight time or aircraft is underpowered	Flight battery charge is low	Completely recharge flight battery
	Propeller installed backwards	Remove and install the propeller correctly
	Flight battery damaged	Replace the flight battery and follow flight battery instructions
Control surface does not move, or is slow to respond to control inputs	Control surface, control horn, linkage or servo damage	Replace or repair damaged parts and adjust controls
	Wire damaged or connections loose	Do a check of connections for loose wiring
Controls reversed	Channels are reversed in the transmitter	Do the control direction test and adjust controls for aircraft and transmitter
Motor loses power or pulses then loses power	Damage to motor or battery	Do a check of batteries, transmitter, receiver, ESC, motor and wiring for damage and replace as needed
	ESC uses default soft Low Voltage Cutoff (LVC)	Land aircraft immediately and recharge the flight battery
LED on receiver flashes slowly	Power loss to the receiver	Check connection from the ESC to the receiver
		Check servos for damage
		Check linkages for binding

Replacement Parts

Part #	Description
TOWA157501	Fuselage: Seawind 1.4m
TOWA157502	Wing Set: Seawind 1.4m
TOWA157503	Stabilizer: Seawind 1.4m
TOWA157504	Fin Tip: Seawind 1.4m
TOWA157505	Seats: Seawind 1.4m
TOWA157506	Canopy Frame: Seawind 1.4m
TOWA157507	Canopy: Seawind 1.4m
TOWA157508	Light Controller: Seawind 1.4m
TOWA157509	Retract Speed Reducer: Seawind 1.4m
TOWA157510	Main Gear Retract Set: Seawind 1.4m
TOWA157511	Nose Gear Retract: Seawind 1.4m
TOWA157512	Wheel Set: Seawind 1.4m
TOWA157513	Cowling: Seawind 1.4m
TOWA157514	Spinner: Seawind 1.4m
TOWA157515	Water Rudder: Seawind 1.4m
TOWA157516	Wing Joiner: Seawind 1.4m
TOWA157517	Propeller; 11.5 x 6: Seawind 1.4m
TOWA157518	Propeller Adapter: Seawind 1.4m
TOWA157519	40A ESC; EC3: Seawind 1.4m

Part #	Description
TOWA157520	Motor Mount: Seawind 1.4m
TOWA157521	Decal Set: Seawind 1.4m
TOWA157523	17g Nose Gear Servo: Seawind 1.4m
TOWA157524	36g Main Gear Servo: Seawind 1.4m
TOWA157525	4011-900Kv Motor: Seawind 1.4m

Recommended Parts

Part #	Description
SPMAR637T	AR637T 6CH SAFE and AS3X TelemRX
SPMR8200	NX8 8 Ch DSMX Transmitter Only
SPMX22003S30	2200mAh 3S 11.1V Smart 30C; IC3
SPMXC2080	Smart S1100 AC Charger, 1x100W

Optional Parts

Part #	Description
ONXP22003S40	2200mAh 3S 11.1V 40C , EC3, LED

Important Federal Aviation Administration (FAA) Information

Use the QR code below to learn more about the Recreational UAS Safety Test (TRUST), as was introduced by the 2018 FAA Reauthorization Bill. This free test is required by the FAA for all recreational flyers in the United States. The completed certificate must be presented upon request by any FAA or law enforcement official.



Recreational UAS Safety Test

If your model aircraft weighs more than .55lbs or 250 grams, you are required by the FAA to register as a recreational flyer and apply your registration number to the outside of your aircraft. To learn more about registering with the FAA, use the QR code below.



FAA DroneZone

AMA National Model Aircraft Safety Code

Effective January 1, 2018

A model aircraft is a non-human-carrying device capable of sustained flight within visual line of sight of the pilot or spotter(s). It may not exceed limitations of this code and is intended exclusively for sport, recreation, education and/or competition. All model flights must be conducted in accordance with this safety code and related AMA guidelines, any additional rules specific to the flying site, as well as all applicable laws and regulations.

As an AMA member I agree:

- I will not fly a model aircraft in a careless or reckless manner.
- I will not interfere with and will yield the right of way to all human-carrying aircraft using AMA's See and Avoid Guidance and a spotter when appropriate.
- I will not operate any model aircraft while I am under the influence of alcohol or any drug that could adversely affect my ability to safely control the model.
- I will avoid flying directly over unprotected people, moving vehicles, and occupied structures.
- I will fly Free Flight (FF) and Control Line (CL) models in compliance with AMA's safety programming.
- I will maintain visual contact of an RC model aircraft without enhancement other than corrective lenses prescribed to me. When using an advanced flight system, such as an autopilot, or flying First-Person View (FPV), I will comply with AMA's Advanced Flight System programming.
- I will only fly models weighing more than 55 pounds, including fuel, if certified through AMA's Large Model Airplane Program.
- I will only fly a turbine-powered model aircraft in compliance with AMA's Gas Turbine Program.
- I will not fly a powered model outdoors closer than 25 feet to any individual, except for myself or my helper(s) located at the flightline, unless I am taking off and landing, or as otherwise provided in AMA's Competition Regulation.
- I will use an established safety line to separate all model aircraft operations from spectators and bystanders.

Limited Warranty

What this Warranty Covers

Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.

What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law

These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

WARRANTY SERVICES

Questions, Assistance, and Services

Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your

questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/service-center_render-service-center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements

For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Service

Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of 1/2 hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website http://www.horizonhobby.com/content/service-center_render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

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Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Contact Information	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	2904 Research Rd Champaign, IL 61822
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com 877-504-0233	
	Sales	websales@horizonhobby.com 800-338-4639	
European Union	Horizon Technischer Service	service@horizonhobby.eu	Hanskampring 9 D 22885 Barsbüttel, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	



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